| Work Ord April-22-13 1.4 | | 00461 | · | *100 | 1461* | | | | | | | Page 1 | |
|--|------------|------------------------------------|---|---------------------------------------|---------------------------|------------|--------------|---------------|------------|-------|------------------|----------------|----|
| Item ID: Revision ID: | D3913-1 | | | Accept | *N900 | 040 | 100 |)* | Setup | Start | *N: | S1* | |
| Item Name: Start Date: Required Date: Reference: | | Start Qty: 2.00 Req'd Qty: 2.00 | *9* *** | (8x) | Cust Item II Customer: | D: | | | | Stop | *N: | S2* | |
| Approvals: | Process F | Plan: <u>Mし</u> ブ | Date: 13-04- | ーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーー | Da | ite: | - | | Run | Start | *N | R1* | |
| | QC: | | _ | SPC (Y/N): | | ite: | ., ., | | | Stop | *N | R2* | : |
| Sequence ID/ Work Center II | D , | Operation Description | | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Rej Qty | | Reject Number | Insp. Stamp | - |
| Draw Nbr | R | evision Nbr | | | | | | | | | , | | - |
| D3913 | В | | | | • , | | | • | | | | | |
| 100 | 3.72 | | | 0.00 | | | | | | | | | |
| *100* | 1. St. | • · | | | | | | (83) | C | | 3-7- | 4 | |
| Large Fab | · , *** | Mèmo | | 0.00 | | | • | | | | | | |
| Large Fab | | 2- Drill ho | e as per dwg D3913 ble as per dwg ***one sie identification marks and | | | | | | | | | | |
| 110 | 16. | QC6- Inspect dimension | ns to drawing | 0.00 | | | • | | | | | OA. | S |
| *11 0 * | | Memo | ₩ ₁ . | 0.00 | | | | 8 | <u> </u> | B-0 | 1.05 | 09 | 9 |
| Quality Control | 2 | | | | | | | | | | | | |
| 120 *120* | · | Identify as per dwg & S | Stock Location: | 0.00 | | | | (d) | ` _ | | | ~ | * |
| Packaging | | Memo | | 0.00 | | | | OX | | / | <u>.) - 7 -</u> | ر <u> </u> | ** |
| Packaging | 1 | • | | | | , | | | | | | | |

| | | | | | | | | | | DQA: | Date | · | | |
|---|---------|-----------|-----------|--------|---|-------------|----------|--------------------|---|--------------------|---------------------------|--------------------|--|--|
| NCR: Y | es / No | | | | WORK ORDER NON-C | ON. | NFORM | MANCE / UPE | DATE | QA Closed: | Date | : | | |
| Work Orde | \r. | | | | DISPOSITION AGAINST | | | | | DEPARTMENT/PROCESS | | | | |
| Part N | lo | | | | Scrap Machining Small Fab Use-as-is Thermoforming Finishing | | | | Crosstube Small Fab Finishing Composite | Pro Rec/Sto | Engineering Quality Other | | | |
| Root | | | | Descri | ption of work order update | | nitial | Act | ion | Sign & | | | | |
| Cause | Date | Step | Qty | | or Non-conformance | Ch | ief Eng | Descr | iption | Date | Verification | QC Inspector | | |
| Doc/Data | | | | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | | | | |
| Operator | | | | | | | | | | | | | | |
| Material | | | 1 | | | | | | | | | | | |
| Setup | | | | 1 | | | | | | | | | | |
| Other | | • | | | | | | | | | | | | |
| Process | | · | ļ | | | | | | | | | | | |
| Supplier | | | | | | | | 1 | | | | | | |
| Training | | l | | | | | | | | | | | | |
| Unapproved | | | | | | L | | | | | | | | |
| | | | | | F | AUL | T CATE | GORY | | | | | | |
| Landi | ng Gear | | | | General | | _ | | | = | _ | _ | | |
| | Bendi | ng | | | Bend | | Grain | | | Ovalized | | Pressure/Forced | | |
| ·- | Centre | Not Conce | entric to | o/s | BOM/Route | | Hardwa | are | | Over/Under | tolerance | Temperature/Cure | | |
| Bending Centre Not Concentric to O/S Cracks | | | | | Broken/Damaged | | Inspect | ion Incomplete | | Part Incorre | ct | Weld | | |
| Cause Date Step Qty Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved Landing Gear Bending Centre Not Concentric to O/S | | | | | Burrs | | Instruct | tions Incomplete/L | Jnclear | Part Lost/M | issing | Wrong Stock Pulled | | |
| | | | | | Contamination | Maintenance | | | | | | | | |

Mislabeled

Out of Calibration

Out of Sequence

Outside Dimensions

Misread

Offset

Positioned Wrong

Power Loss/Surge

Other

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Inspection Strip in Tube

Torque Waves in Extrusion

Heat Treat

Countersink

Cut Too Short

Drill Holes

Drawing

Finish

Folio

| Work Orde April-22-13 1:4 | | 100461 | | *100 | 1461* | | · w | | | | | Page 2 |
|--------------------------------|---------|------------------------|--|----------------------|------------------|------------|--------------|---------------|------------|---------------|------------------|----------------|
| Revision ID: | D3913-1 | | · · · · · · · · · · · · · · · · · · | Accept | *N900 | 040 | 100 |)* | Setup | Start Stop | | S1* S2* |
| Start Date: | 5/03/13 | Start Qty: 2.00 | *2* | | Cust Item I | D: | | | | | | |
| Required Date: | 5/06/13 | Req'd Qty: 2.00 | *2* | | Customer: | | | | | | | |
| Reference: | | .* | - | | | | | | | | | |
| Approvals: | Process | Plan: | Date: | Tooling: | Da | ıte: | _ | | Run | Start | *N | R1* |
| | QC: _ | | Date: | SPC (Y/N): | Da Da | ite: | | | | Stop | *N | R2* |
| Sequence ID/ Work Center II |) | Operation Description | ······································ | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Rej Qty | | Reject Number | Insp. Stamp |
| 130 | | QC21- Final Inspection | Work Order Release | 0.00 | | | | | | ا م ، | | 2/ |
| *130* QC Quality Control | | Memo | | 0.00 | | | | | | 13/ | 7/8 | -1× |

M4 13-7-5

| | | | - | | | | | | DQA: | Date: | | | | |
|-------------------|------|------|------|-----|--|-----------|----------------------------|---|---------------------------|--------------|--------------|--|--|--|
| NCR: Y | es . | / No | | | WORK ORDER NON- | CONFOR | MANCE / UP | | QA Closed: | Date: | | | | |
| Work Orde | or. | | | | DISPOSITION | | AGAINST DEPARTMENT/PROCESS | | | | | | | |
| Part No. NCR No. | | | | | Rework Scrap Use-as-is Work Order Update | The | | Water Jet d. Eng. Coor. re/Packaging Supplier | Engineering Quality Other | | | | | |
| Root | | | | | Description of work order update | Initial | Ac | tion | Sign & | | | | | |
| Cause | | Date | Step | Qty | or Non-conformance | Chief En | g Desc | ription | Date | Verification | QC Inspector | | | |
| Doc/Data | | | | | | | | | | | | | | |
| Equip/Tooling | Ц | | | | [| | | | | | | | | |
| Operator | · | | 1 | | İ | | | | | | | | | |
| Material | | | | | | | | | | | | | | |
| Setup | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| Process | | | | | | | | : | | , | | | | |
| Supplier | | | | | | | | . • | | 1 | | | | |
| Training | | | | | · | | | | | | | | | |
| Unapproved | | | | | | | | | | | | | | |
| | | | | | | FAULT CAT | EGORY | | | ý | | | | |

General **Landing Gear** Ovalized Pressure/Forced Bend Grain Bending BOM/Route Over/Under tolerance Temperature/Cure Centre Not Concentric to O/S Hardware Broken/Damaged Inspection Incomplete Part Incorrect Weld Cracks Crushed/Crimped Burrs Instructions Incomplete/Unclear Part Lost/Missing Wrong Stock Pulled Part Moved Cuffs Contamination Maintenance Mislabeled Positioned Wrong Heat Treat Countersink Other Misread Power Loss/Surge Inspection Strip in Tube Cut Too Short Drill Holes Ripples in Bend Offset Drawing Out of Calibration Torque Waves in Extrusion Out of Sequence Turning Sequence Finish Folio Outside Dimensions Wave/Twist in Tube

April-22-13 1:40:57 PM

Work Order ID:

100461

Parent Item:

D3913-1

Parent Item Name:

Rib -

Start Date: 5/03/13

Required Date: 5/06/13

Start Qty: 2.00

Required Qty: 2.00

Comments:

IPP Rev:B add drill one side only

IPP Rev:A new issue DD 10.03.19 verified by:EC IPP Rev:B add of DD 10.04.12 verified by:EC IPP Rev:C 11.01.18 chg qc5 to 6 DD verf:EC

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---------------------------------|---------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|----------------------|--------------|---------------|----------------|---------------------------------------|
| M304TS0.750W.049 | | Purchased | No | | | 100 | f | 970.7307 | .8 | 16.842105 | R F | 19 - | 7 4 / |
| 304 SQ Tube .75x.75x.049 | 9W | | | | | | | | g-2-2-2-1985-2-1986- | | | 13-5 | -4/ |
| | | | | Location | | Loc Oty | <u>Lo</u> | c Code | • | | | • • | |
| | | | | MAT017 | | 241.6869 | | | | | | | |
| | | | | 12449 | 92 | 241.6869 | | | · | | | | |
| · · | | · | | WA006 | | 729.0438355 | | | | | | | |
| • | | | | 1232 | 19 | 16.0438355 | | | | | | 4 | i i |
| | | | | 1234 | 84 | 113 | | | | |) 2 | Market. | |
| ч . | | | | 12512 | 24 🔿 | 6 00 | | | (6 | 7.36 | | | · · · · · · · · · · · · · · · · · · · |

| | | | 1 | | | | | | | | DQA: | Date | 9: |
|---------------|-------|-----------------|------------|----------|---------------|----------------------------|-------------------------------|--------------|------------------|------------|--------------|---------------|--------------------|
| NCR: Y | es / | ' No | : | | | WORK ORDER NON-O | CON | IFORN | ANCE / UP | DATE | | | |
| | | | | | | | | | | | QA Closed: | Date | <u>:</u> |
| Work Orde | ır. | | | | | DISPOSITION | | | | AGAINST DE | EPARTMENT, | /PROCESS | |
| WOIK OIGE | ·· — | | | | - | Rework |] | | Skid-tube | Crosstube |] | Water Jet | Engineering |
| Part N | lo | | | | | Scrap |] | | Machining | Small Fab | - | d. Eng. Coor. | Quality |
| | | | : | | | Use-as-is | | | | | Rec/Sto | re/Packaging | Other |
| NCR N | lo | | | | | Work Order Update | er Update Large Fab Composite | | | | | Supplier | |
| Root | | | | | Descri | ption of work order update | li | nitial | Ac | tion | Sign & | | |
| Cause | | Date | Step | Qty | C | or Non-conformance | Ch | ief Eng | Desc | ription | Date | Verification | QC Inspector |
| Doc/Data | | | | | | | | | | | | ļ | |
| Equip/Tooling | | | | | | | İ | | | | | | |
| Operator | | | | | | | | | | | | | |
| Material | | | | | | • | | | | | | 1 | |
| Setup | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | |
| Process | | | | | | | | | | | | | |
| Supplier | | | | | | | | | | | | | |
| Training | | | 1 | | | | | | | | | | |
| Unapproved | | | İ | | | | | | | | | | |
| | | : | | | | F | AUL | T CATE | GORY | | | | |
| Landi | ng Ge | ar | | | | General | | • | | | _ | | |
| | | ending | | | | Bend | | Grain | | | Ovalized | _ | Pressure/Forced |
| | | entre N | ot Conce | ntric to | o/s | BOM/Route | | Hardwa | re | L | Over/Under | tolerance | Temperature/Cure |
| | | racks | | | | Broken/Damaged | | Inspecti | on incomplete | L | Part Incorre | ct | Weld |
| | | crushed/ | Crimped | | | Burrs | | Instruct | ions Incomplete/ | 'Unclear | Part Lost/M | issing | Wrong Stock Pulled |
| | | Cuffs | • | | | Contamination | | Mainte | enance | | Part Moved | | |
| | H | leat Trea | at | | | Countersink | | Mislabe | eled | | Positioned \ | Wrong _ | |
| | Πı | nspectio | n Strip ir | Tube | | Cut Too Short | | Misread | i | | Power Loss, | /Surge | Other |
| | F | Ripples in Bend | | | | Drill Holes | | Offset | | | | | |

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

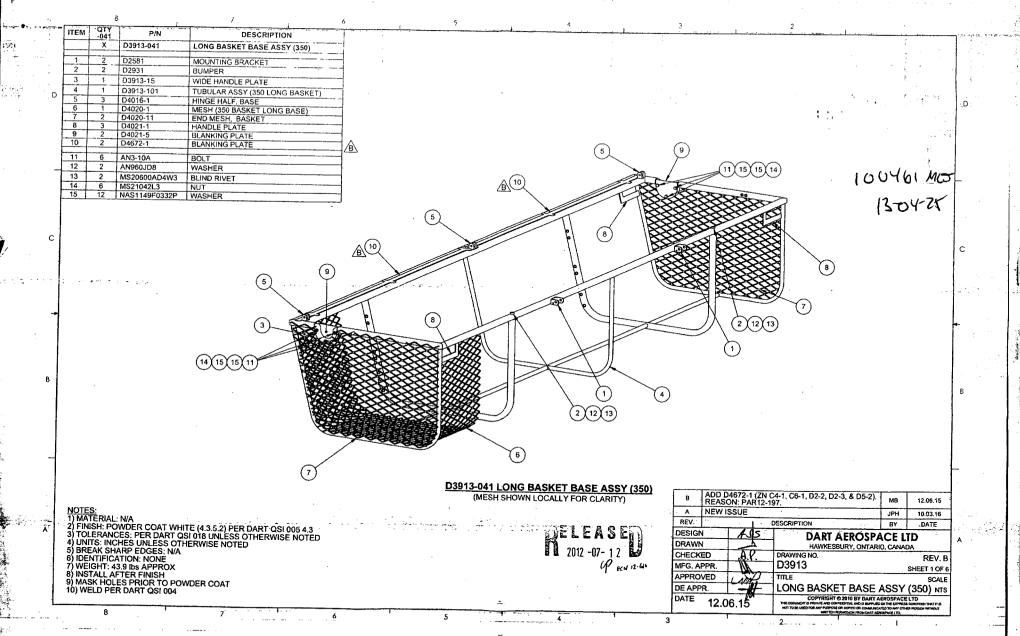
Wave/Twist in Tube

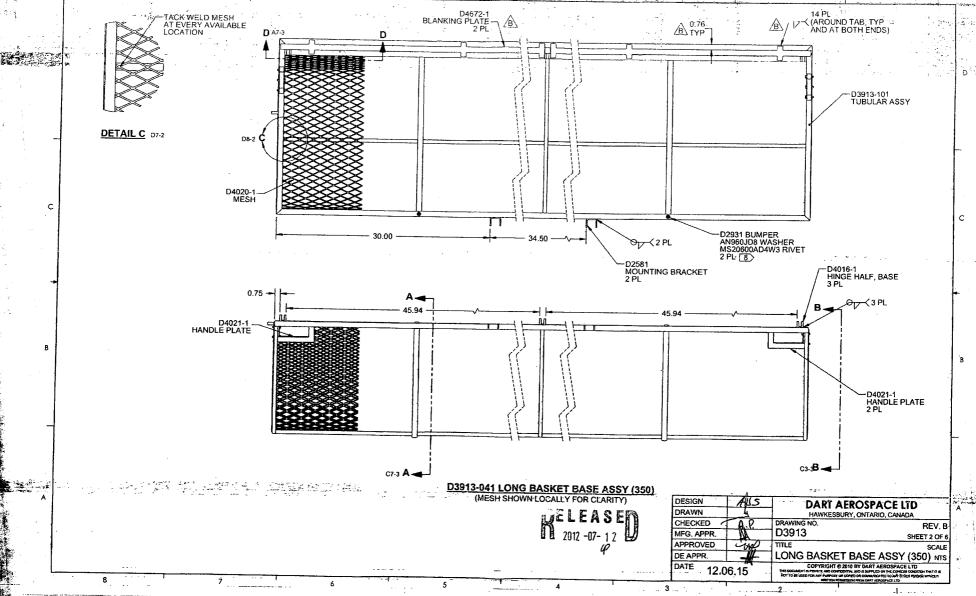
Torque Waves in Extrusion

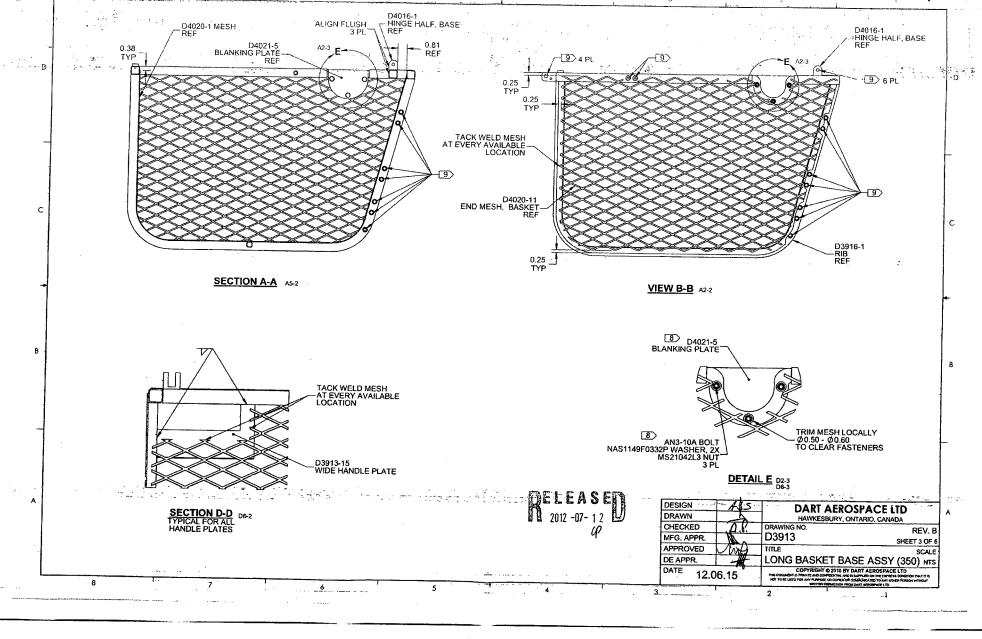
Drawing

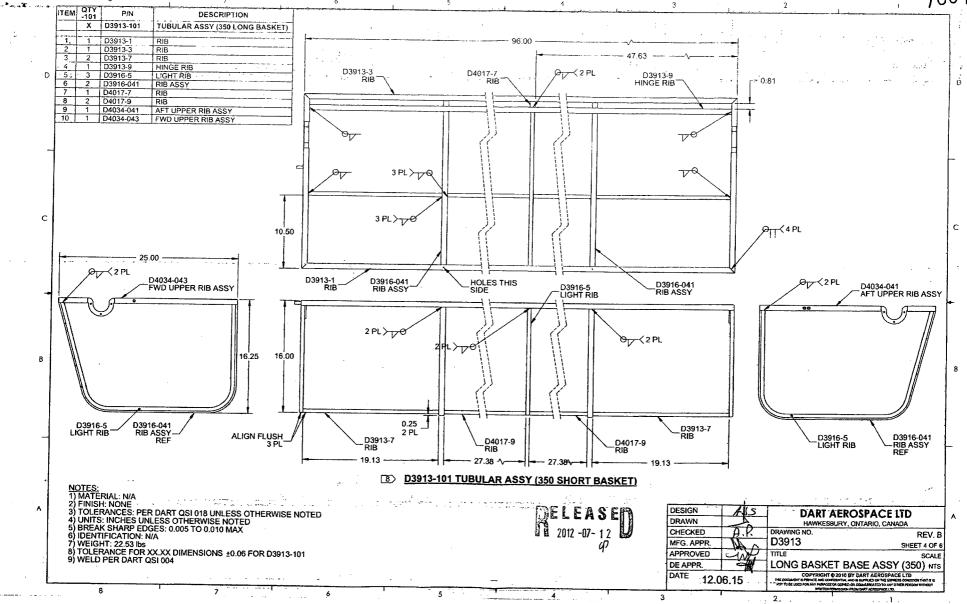
Finish

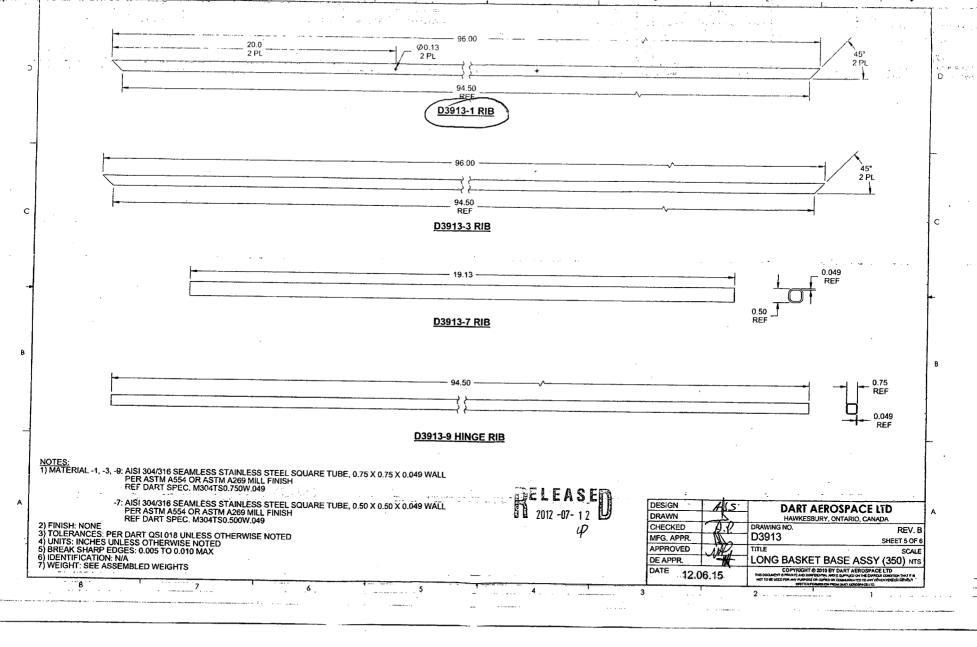
Folio

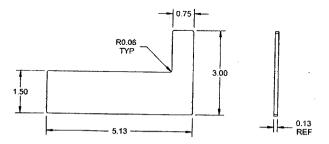












D3913-15 WIDE HANDLE PLATE

NOTES:
1) MATERIAL: 304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH,
PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME SA240
REF DART SPEC M304S11GA
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: N/A
7) WEIGHT: 0.31 lbs

1

| DESIGN ` | 415 | DART AEROSPACE LTD | | | | | | | |
|------------|------|---|------|--|--|--|--|--|--|
| DRAWN | 5 | HAWKESBURY, ONTARIO, CANADA | | | | | | | |
| CHECKED | A.V. | DRAWING NO. RE | V. B | | | | | | |
| MFG. APPR. | M | D3913 SHEET 6 | OF 6 | | | | | | |
| APPROVED | MA | | ALE | | | | | | |
| DE APPR. | 4 | LONG BASKET BASE ASSY (350) | NTS | | | | | | |
| DATE 12.0 | 6.15 | COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PROVIDE AND CONFIDENCY, AND IS SUPPLIED ON THE EXPRESS CONCIDENT THAT IT IS NOT TO BY LEED FOR ANY FLANCE CONCIDENT BY COMMANDICATED TO ANY OTHER POSSION HOUSE. WHITE PROPRESSION FOR ANY FLANCE AND ANY ADDRESSION. | | | | | | | |